Quality Control

Work Orde October-24-12		157		*921					Page 1			
Item ID: Revision ID: Item Name:	D3021-041 Tube Assembly	v	A	Accept	*N900	040	100)*	Setup	Start Stop	14.	S1* S2*
Start Date: Required Date: Reference:	10/24/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					14.	
Approvals:		n: 外し <u></u>	Date: 17-10-24	Tooling: SPC (Y/N):		ate:			Run	Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II	 D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept	t Re	•	Reject Number	Insp. Stamp
Draw Nbr	Rev	ision Nbr										
D3021	В											
*100 *100* Large Fab Large Fab			e as per Dwg D3021 pe as per Dwg D3021 using D	0.00 0.00				0		A	13-1	-24.
		3-Deburr	per Dwg D3021 using D per Dwg D3021 QSI004 30 Rod Batch:									
*110		QC9- Inspect visual po	er QSI004- Fusion Welds	0.00				_0) (3	-01-9	W	04S 09 09
QC		Memo		0.00								

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												DQA:	Da	te:	
NCR:	Yes	/ No				WORK ORDER NON-C	O	NFORM	MANCE / UPI	DATE		QA Closed:		te:	
						DISPOSITION				AGAINS	T DE	PARTMENT			···
Work Orde	er:		 				,					,			
Part N	No.					Scrap						Water Jet Prod. Eng. Coor.			Engineering Quality
NCR I	No.					Use-as-is Work Order Update]		noforming Large Fab	Finishin Composit		Rec/Stor	e/Packaging Supplier		Other
Root					Descri	ption of work order update		Initial	Act	ion		Sign &	:		7
Cause		Date	Step	Qty	C	or Non-conformance	Ch	ief Eng	Descr	iption		Date	Verificatio	n	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved															
							AUL	T CATE	GORY						
Landi		g Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs				General Bend BOM/Route Broken/Damaged Burrs Contamination		1	or Incomplete ions Incomplete/Unclear			Ovalized Over/Under Part Incorred Part Lost/Mi	ct		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled
ર		Heat Trea		T. 1	<u> </u>	Countersink		Mislabe	1islabeled F			Positioned Wrong			1 _{0.4}
		Inspection Strip in Tube Cut Too Short Ripples in Bend Drill Holes				÷	-	Misread Offset	I			Power Loss/	Surge	Ш	Other

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID 92157 Page 2 October-24-12 10:18:32 AM *N900040100* Setup Start Item ID: D3021-041 Accept **Revision ID:** Tube Assembly Item Name: **Start Date:** 10/24/12 Start Qty: 1.00 **Cust Item ID:** Required Date: 11/09/12 Req'd Qty: 1.00 **Customer:** Reference: Run Tooling: Process Plan: Date: Date: **Approvals:** Stop SPC (Y/N): Date: _____ Date: Sequence ID/ Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Operation Qty Work Center ID Code Qty Number Stamp Description **Run Hours** QC5- Inspect part completeness to step on W/O 0.00 120 *120* 0.00 QC Memo Quality Control 130 0.00 1 \$ St 13-1-25 *130* 0.00 Powdercoat **Powder Coating** 1, d Ill 13/6c(2 QC3- Inspect Part Finish 0.00 140

0.00

Memo

QC

Quality Control

DQA:

Date:

NCR:	Yes	/	No

NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE															
												QA Closed:	Date		
Vork Orde	r:						DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part N	o		_				Rework Scrap		f	Skid-tube Machining	Crosstube Small Fab		Water Jet d. Eng. Coor.	Engineering Quality	
NCR N	NCR No. Use-as-is Work Order Update									noforming Large Fab	Finishing Composite	Rec/Stor	Other		
Root	Description of work order update						otion of work order update		nitial	Act	ion	Sign &			
Cause		Date Step Qty or Non-conformance				Ch	ief Eng	Descr	ription	Date	Verification	QC Inspector			
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Landin	g Gea	ar					General								
	Ве	ending					Bend		Grain			Ovalized		Pressure/Forced	
	Ce	entre Not	t Concer	tric to 0	o/s		BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure	
	Cr	racks					Broken/Damaged		Inspecti	on Incomplete		Part Incorre	ct	Weld	
	Cr	ushed/C	rimped.				Burrs		Instruct	ions Incomplete/L	Jnclear	Part Lost/M	ssing	Wrong Stock Pulled	
	Cı	uffs					Contamination		Mainte	nance		Part Moved			
Ī	Ηι	eat Treat	t				Countersink		Mislabe	eled	Ī	Positioned V	Vrong		
ſ	In	Inspection Strip in Tube Cut Too Short				Cut Too Short		Misread	d	<u> </u>	Power Loss/		Other		
ľ	Ripples in Bend Drill Holes						Offset			_		A., 10, 10, 100 -			
ľ	Torque Waves in Extrusion Drawing						Drawing		Out of (Calibration					
Ī	Turning Sequence Finish						-	Out of Sequence							
ļ	Wave/Twist in Tube Folio							Dimensions							

Work Orde October-24-12				*921					Page 3			
Item ID: Revision ID: Item Name:	D3021-041 Tube Assemb	ly	and the second s	Accept	*N900	040	100)*	Setup	Start Stop	1 71 .	S1* S2*
Start Date: Required Date: Reference:	10/24/12 : 11/09/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						
		an:	Date:		Date: Date:			Run	Start Stop	*N *N	R1* R2*	
Sequence ID/ Work Center I 150 *150* Packaging Packaging	D	Operation Description Identify as per dwg & Sto	ock Location:	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Qt	y	Reject Number	Insp. Stamp

0.00

0.00

QC21- Final Inspection - Work Order Release

Memo

160

160

Quality Control

13/1/29

JB-01.28

DQA:

Date:

NCR:	Yes	1	No

NCR: Y	'es	/ No				WORK ORDER NON-	CON	IFORN	MANCE / UPI	DATE	QA Closed:	Date	e:
Work Orde	er:					DISPOSITION	_			AGAINST DE	PARTMENT	/PROCESS	
Part N	lo. ₋					Rework Scrap Use-as-is		! Therm	Engineering Quality Other				
NCR N	10.					Work Order Update							
Root	Root Description of work order					iption of work order update	lr	nitial	Act	tion	Sign &		
Cause		Date	Step	Qtỳ		or Non-conformance	Chi	ef Eng	Desci	ription	Date	Verification	QC Inspector
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Landir	ng G	Sear			_	General					_	-	_
		Bending				Bend		Grain			Ovalized	1	Pressure/Forced
		Centre No	t Concer	ntric to (o/s	_BOM/Route	Ш	Hardwa	re	<u></u>	Over/Under	tolerance	Temperature/Cure
	_	Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct "	Weld
		Crushed/C	Crimped.			Burrs	Ш	Instruct	ions Incomplete/I	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs				Contamination		Mainte	nance		Part Moved		
		Heat Trea	t			Countersink		Mislabe	led		Positioned V	Vrong _	·
		Inspection	Strip in	Tube		Cut Too Short		Misreac	I		Power Loss/	Surge [Other
		Ripples in	Bend			Drill Holes		Offset					
		Torque W	aves in E	xtrusior	n [Drawing		Out of 0	Calibration				
	Turning Sequence Finish						Out of S	equence					
	Wave/Twist in Tube Folio					Outside Dimensions							

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Picklist Print

October-24-12 10:18:32 AM

Work Order ID:

92157

Parent Item:

D3021-041

Parent Item Name:

Tube Assembly

Start Date: 10/24/12

Required Date: 11/09/12

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP 01.10.23 New Issue SM

IPP REV:B 12.06.26 DWG PB2

	DD VERF:JLM												
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3017-11		Manufactured	No			100	Each	86.0000	2	£7 2	13-1-2	 ?	
cap										<u> </u>	1 / 2	<u> </u>	4(x
				Location		Loc Oty	<u>Lo</u>	c Code					
				WA		6			***				
				908	29	6							
				WA021		80							
				768	51	11							
				 818	$\overline{37}$	69				2_			
M4130NT0.750W.049 4130 RD Tube .750 x.049	NW/	Purchased	No			100	f	164.1400	2.0833	2.1929 E	13-7-2	3	
4130 KD 1480 .730 x.047	••			Location		Loc Oty	<u>L</u> c	oc Code			-		
				MAT033		164.14							
				121	025	3.11							
				122	2425	40							
					2812	43.03				~ ~ ~			
				$\bigcirc 123$	1339	78				Y . 1 [

											DQA:	Date:		
NCR:	Yes	/ No				WORK ORDER NON-O	O	NFOR!\	MANCE / UPD	ATE				
						<i></i>					QA Closed:	Date:		
Work Orde	۵r·					DISPOSITION				AGAINST DE	PARTMENT,	/PROCESS		
Part I	- No					Rework Scrap Use-as-is Work Order Update		Skid-tube Crosstube Water Jet Engine Machining Small Fab Prod. Eng. Coor. Thermoforming Finishing Rec/Store/Packaging Large Fab Composite Supplier						
Root					Descri	ption of work order update	Ti	nitial	Acti	on	Sign &			
Cause		Date	Step	Qty	C	or Non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	QC Inspector	
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved													· .	
						······································	AUL	T CATE	GORY					
Landi	Centre Not Concentric to O/S Cracks Bi Crushed/Crimped Cuffs Heat Treat Concentric to O/S Bi Crushed/Crimped Concentric to O/S Conce			General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short		Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread			Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V	ct sissing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled			
	Ripples in Bend					Drill Holes	Offset							

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